SUBJECT INDEX

1991

Numbers following items designate the month of issue and page number (of the first page of the article in which the item appears). Thus, 6:30 means page 30 of the June issue.

A

ABS
specialty applications, 2:25, 8:5, 8:9, 12:6
sterilization and, 1:27
ABS/polycarbonate blend, specialty application, 1:5
Acetal, specialty applications, 2:4, 3:9, 10:4
Acid neutralizers, additives, 9:12, 9:39
Acrylic, specialty applications, 1:6, 8:9, 9:4
Acrylonitrile-styrene-acrylate, specialty application, 7:8
Additives
acid neutralizers, 9:12, 9:39
annual roundup, 9:12
antimicrobials, 7:12, 9:12
antioxidants, 4:18, 7:12, 9:12
antistats, 7:12, 9:12
appearance and, 11:24
biocides, 7:12, 9:12
blowing agents, 7:12, 9:12
brighteners, 11:24
carbon black, 9:12
catalysts, 4:18, 9:12
colorants, 9:12, 11:24
color enhancers, 9:12
compatibilizers, 7:37, 9:12
coupling agents, 9:12
curatives, 4:18, 9:12
dispersants, 9:12
fillers/reinforcements, 7:12, 9:12
flame retardants, 7:12, 9:12
foaming agents, 7:12, 9:12
gloss reducers, 9:12, 11:24
HDT modifiers, 9:12
heat stabilizers, 4:18, 7:12, 9:12
impact modifiers, 7:12, 7:37, 9:12
initiators, 4:18, 9:12
light stabilizers, 4:18, 6:21, 7:12, 9:12
lubricants, 4:18, 9:12
melt flow improvers, 9:12
modifiers, 7:12, 9:12
mold-release agents, 9:12
nucleating agents, 9:12
pigments, 9:12, 11:24
plasticizers, 4:18, 9:12
processing aids, 4:18, 9:12
reinforcements/fillers, 7:12, 9:12
slip agents, 9:12
smoke suppressants, 7:12, 9:12
stabilizers, 4:18, 7:12, 9:12, 9:39
synergists, 7:12
ultraviolet light stabilizers, 7:12, 9:12
Advanced composites: *see* Composites
Aerospace plastics, 12:16
Aircraft/aerospace plastics, 12:16
Akron, University of, dedicates Polymer Science Building, 5:9
Allied-Signal Inc., realigns, 12:8
Amoco Corp.
develops new engineering polymer, 4:13
endows chair at Ohio State, 5:10
Annual report, SPE, 5:69
Annual Technical Conference (ANTEC)
"George Thorne Assumes SPE Presidency; ANTEC '91 Draws 4200 to Montreal" (preliminary wrapup), 6:6
"Montreal's ANTEC '91 Sets Record With 600-Plus Technical Papers" (wrapup), 7:18
"Plastics—A Rendez-Vous With Excellence" (preview), 3:24
ANTEC: *see* Annual Technical Conference
Antimicrobials, additives, 7:12, 9:12
Antioxidants, additives, 4:18, 7:12, 9:12
Antistats, additives, 7:12, 9:12
Arco Chemical Co., 4:14
ASA: *see* Acrylonitrile-styrene-acrylate
Association of Foam Packaging Recyclers, formation of, 9:9
Association of Post-Consumer Plastics Recyclers, formation of, 12:5
Automotive plastics
clutch system, 12:13
flexible foam, 1:23
gas injection molding and, 10:21
Japanese automakers, and recycling, 11:8
molded-in-color TPO bumper cover, 10:17
"More challenges—more solutions," 10:8
processing and, 6:8
recycling and, 10:3, 10:27, 11:7, 11:8
resin transfer molding and, 8:9
Society of Automotive Engineers (SAE)
recycling codes, 11:7
SAE show, and plastics, 4:28
Society of Plastics Engineers Automotive Division, awards, 12:14
specialty applications, 10:3, 12:13
structural part, 10:21
thermoplastic olefins (TPOs), 10:17
Awards
Du Pont, 5:9, 9:9
SPE Automotive Division, 12:14
SPE International, 4:32
SPE Thermoforming Division, 11:21
SPI Composites Institute, 3:13
SPI Structural Plastics Division, 6:24
Vinyl in Packaging (V.I.P.), 6:14

B

Battenfeld, acquires Hartig, 10:14
Biocides, additives, 7:12, 9:12
Blends
nylon 6/PP, modifying for impact strength
PC/PET, specialty application, 12:7
Blowing agents, additives, 7:12, 9:12
BMC: *see* Bulk molding compound
Brighteners, additives, 11:24
Building codes, and vinyl, 6:3
Bulk molding compound, reinforced with recycled SMC, 5:13
Bush, George, U.S. President, 4:8, 4:16

C

CAD (Computer-aided design), specialty application, 6:4
CAE (Computer-aided engineering), 12:23
Calgary, Alberta, and recycling, 11:4
Canada, trade talks with U.S. and Mexico, 4:8, 10:27
Carbon black, additive, 9:12
Catalysts, additives, 4:18, 9:12
Celluloid, first plastic material, 1:45
CFCs: *see* Chlorofluorocarbons
Chemical industry, U.S., sets sales record, 1:8
Chlorofluorocarbons: *see also* Hydrochlorofluorocarbons
alternatives to, 1:23
Du Pont and, 12:8
legislation and, 3:7
Montreal Protocol, 12:8
restrictions on, 6:3, 12:8
usage diminishing, 9:9, 12:8
Clean air regulations, 8:6, 9:6, 12:5
Clemson University, 6:14
Coca-Cola bottles, recycling and, 2:15
Colorants
additives, 9:12, 11:24
pigments, titanium dioxide, 9:12

Color enhancers, additives, 9:12
Color masterbatches, compounding and, 12:39
Compatibilizers, additives, 7:37, 9:12
Composites
aircraft/aerospace plastics, 12:16
automotive and, 10:8
importance to U.S. of, 7:5
nylon, specialty applications, 6:5, 8:5, 12:7, 12:13
PBT, specialty application, 12:7
SMC scrap used as reinforcement, 5:13
specialty applications, 3:11, 5:6, 5:7, 6:4, 10:4
SPI conference (Composites Institute) 1:12, 5:5, 3:13
vinyl ester resin, specialty application, 3:11, 6:5
Composites Institute, SPI
conference preview, 1:12
conference wrapup, 3:13
Composites Research Consortium, and automotive, 10:8
Compounding, color masterbatches, 12:39
Computers, and plastics
computer-aided engineering (CAE) 12:23
engineering resins and, 8:10
finite element analysis, 8:9
specialty application, 2:25
Concurrent design, 12:23
Conducting polymers, 12:8
Conferences
ANTEC 1991
preview, 3:24
wrapups, 6:6, 7:18
NPE '91, 5:28, 8:24
RETECs, SPE: *see* Regional Technical Conferences
SPI Composites Institute, 1:12, 3:13
Structural Plastics '91, 6:24
Cornell University, research into "new class" of polymers, 7:9
Council for Solid Waste Solutions: *see* Society of the Plastics Industry
Coupling agents, additives, 9:12
Cryovac Division, W.R. Grace & Co., 6:14
CSWS: *see* Society of the Plastics Industry, Council for Solid Waste Solutions
Curatives, additives, 4:18, 9:12

D

Database network, access for SPE members, 10:48
Design
CAE and, 12:23
injection molding part toughness, 8:17
reinforced PC structural foam, mechanical properties of, 6:25
tight-tolerance design, 5:23
Directory, SPE, 9:42
Dispersants, additives, 9:12
Du Pont Co.
awards for food industry innovation, 5:9, 9:9
CFCs and, 12:8
receives National Medal of Technology, 1:7

E

Economics, and plant management, 11:29
Elastomers
thermoplastic, specialty application, 6:4
thermoplastic polyurethane, specialty application, 5:8
Electrical/electronic, plastics and, 8:10
Engineering, computer-aided (CAE), 12:23
Engineering resins
automotive and, 10:8
"Into the '90s," 2:6
Engineers, hiring of "overqualified," 8:21
Environment, plastics and: *see* Recycling
Environmental Education Act, approved in U.S., 2:24
Environmental Protection Agency, U.S.
chemical review process and, 3:7
clean air regulations, 9:6, 12:5
cracks down on workplace violators, 2:24, 6:3
guidelines on recycling claims, 12:5
HCFCs and, 5:5, 6:3
joint workplan with OSHA, 6:3
Office of Toxic Substances of, 3:7
pollution prevention strategy, 5:5
risk assessment and, 1:3
storm water regulations and plastics plants, 1:8, 12:5
styrene and, 5:5
Superfund law, 3:7
EPA: *see* Environmental Protection Agency
Epoxy, specialty application, 7:8
Extrusion
compounding and, 12:39
polyester sheet, 4:9
polyolefins, 6:31
polypropylene foam, 3:82
single-screw, 6:31
tandem extrusion equipment for polypropylene foam, 3:82
twin screw, 12:39

F

Facts & Figures of the U.S. Plastics Industry, 12:66
FDA: *see* Food and Drug Administration
Fiberglass, specialty application, 7:8
Fillers/reinforcements, additives, 7:12, 9:12
Film, polyester, specialty applications, 9:15, 12:13
Finite element analysis, specialty application, 8:9
Flame retardants, additives, 7:12, 9:12
Flow analysis, 3:87
Foam
automotive and, 10:8
extrusion, 3:82
flexible, 1:23
MDI-based, 1:23
packaging, formation of association for recycling of, 9:9
polypropylene, 3:82
polystyrene, specialty application, 10:3
recycling, 9:9
structural
reinforced PC, mechanical properties of, 6:25
tolerances in, 5:23
Foaming agents: *see* Blowing agents
Food and Drug Administration (FDA), U.S., 11:7
Fusible core injection molding, 2:27

G

Gas injection molding, 10:21
Gating, for tight tolerances, 5:23
Gloss reducers, additives, 9:12, 11:24

H

Hall of Fame, Plastics, new inductees, 8:31
HCFCs: *see* Hydrochlorofluorocarbons
HDPE: *see* High-density polyethylene
HDT modifiers, additives, 9:12
Heat stabilizers, additives, 4:18, 7:12, 9:12
Heavy plastic, specialty application, 2:4
Heinz Co. Foundation, 8:7
High-density polyethylene, specialty applications, 1:6, 8:9
Hoechst AG, economic and product outlooks, 1:7
Hollow gas injection molding, 2:27
Huntsman Chemical Corp.
environmental efforts and, 2:15, 7:9
styrene monomer production and, 8:7
Hyatt, John Wesley, historical marker honors, 1:45
Hydrochlorofluorocarbons, 5:5, 6:3, 12:8

I

IBM Corp., research into "new class" of polymers. 7:9
ICI, sells LNP to Kawasaki Steel, 11:8
Impact modifiers, additives, 7:12, 7:37, 9:12
Initiators, additives, 4:18, 9:12
Injection molding
alternative methods, 2:27
fusible core injection molding, 2:27
gas injection molding, 10:21
hollow gas injection molding, 2:27
melt viscosity and, 8:17
multiple live feed injection molding, 2:27
part toughness, 8:17
push-pull injection molding, 2:27
sandwich molding, 2:27
tooling for, 11:33
two-color injection, specialty application, 8:4
Isocyanate, MDI-based, for use in flexible foams, 1:23
Isopolyester composite, specialty application, 10:5
Italy, plastics machinery industry, 1:20, 8:7

J

Japanese automakers, 11:8

L

Landfills, 3:7
Law enforcement, and plastics, 1:5, 1:5, 5:7
LDPE: *see* Low-density polyethylene
Light-intensifying plastics, 11:5
Light stabilizers, additives, 4:18, 6:21, 7:12, 9:12
Linear low-density polyethylene, sterilization and, 1:27
Liquid crystalline epoxy networks, 7:9
Liquid crystal polymers, 3:87
LLDPE: *see* Linear low-density polyethylene
Low-density polyethylene, reuse of, 2:15
Lubricants, additives, 4:18, 9:12
Luminescent plastics, 11:5

M

Machinery
imports, U.S., 5:5
Italian plastics machinery industry, 1:20
shipments, U.S., 5:5
Management, plant, 11:29
Materials: *see also* specific type
automotive plastics, 4:28, 10:8, 10:17
engineering resins, 2:6
MDI-based elastomeric binder, 4:7
MDI-based flexible foams, 1:23
Medical plastics
ABS, 1:27
LLDPE, 1:27
nylon composites, 12:7, 12:13
PBT composite, 12:7
polyarylsulfone, 4:7
polycarbonate, 1:27
polypropylene, 4:7, 10:3
polystyrene, 1:27
polysulfone, 6:20
SAN, 1:27
sterilization and, 1:27
thermoplastic urethanes, 1:27
Medical waste, and plastics, 11:6
Melt flow improvers, additives, 9:12
Melt viscosity, 8:17
Mexico
SPE visitors, 10:48
trade talks with U.S. and Canada, 4:8, 10:27
Microprocessors: *see* Computers
Modifiers, additives, 7:12, 7:37, 9:12
Mold design, and tooling, 11:33
Mold-flow improvers, additives, 9:12
Mold-release agents, additives, 9:12
Montreal Protocol, regarding CFCs, 12:8
MSW: *see* Municipal solid waste
Multiple live feed injection molding, 2:27
Municipal solid waste (MSW), 3:7

N

National Association for Plastic Container Recovery (NAPCOR), 7:9
National Institute of Standards and Technology (NIST), 11:8
National Plastics Exposition (NPE '91)
preview, 5:28
wrapup, 8:24
New Jersey Institute of Technology, 6:14
Northeast Recycling Council, labeling standards and, 4:8
NPE: *see* National Plastics Exposition
Nucleating agents, additives, 9:12
Nylon
blends with polypropylene, 7:37
composites, specialty applications, 6:5, 8:5, 12:7, 12:13
encapsulation with, 12:13
specialty applications, 1:5, 2:5, 4:4, 5:8, 9:8, 10:4, 10:4, 10:5, 12:13

O

Occupational Safety and Health Administration (OSHA), U.S., 2:24, 4:14, 6:3, 10:14, 10:27
Ohio State University, chair in polymer engineering endowed by Amoco, 5:10
Oregon, adopts CSWS recycling goals, 9:6

P

Packaging
awards competitions
sponsored by Du Pont, 5:9, 9:9
sponsored by Vinyl Packaging Council, 6:14
bills defeated, 8:6
foam, recycling of, 9:9
polyester, 4:9, 9:5
polyethylene application, 3:9
polypropylene film application, 11:4
recycling and, 4:7, 9:9
restrictions on, in Suffolk County, N.Y., 7:5
rust-preventing, 3:9
specialty applications, 4:4, 7:6, 9:5
PBT: *see* Polybutylene terephthalate
PC: *see* Polycarbonate
Perkin-Elmer Corp., business strategies, 3:15
PES: *see* Polyethersulfone
PET: *see* Polyethylene terephthalate
Phillips 66 Co., reaches agreement with OSHA on 1989 accident, 10:14
Pigments, additives, 9:12, 11:24
Plant management, 11:29
Plaspec, database network, access for SPE members, 10:48
Plasticizers, additives, 4:18, 9:12
Plastics and Rubber Institute, U.K., 9:9
Plastics Hall of Fame,
new inductees, 8:31
Plastics Pioneers Association, 3:107
Polyamide: *see* Nylon
Polyarylsulfone, specialty application, 4:7
Polybutylene terephthalate, composite, specialty application, 12:7
Polycarbonate
blend, with ABS, specialty application, 1:5
blend, with PET, specialty application, 12:6
specialty applications, 3:11, 9:4
sterilization and, 1:27
structural foam, reinforced, mechanical properties of, 6:25
Polyester
extrusion of, 4:9
film
new film offers source reductions, 11:8
specialty applications, 9:5, 12:13
packaging, 4:9
thermoforming of, 4:9
unsaturated, specialty application, 3:9

Polyethersulfone, specialty application, 2:5
Polyethylene
fiber, specialty application, 5:7
packaging, 3:9
recycling and, 2:15
specialty applications, 3:9, 4:5, 11:6
sterilization and LLDPE, 1:27
Polyethylene terephthalate
blend, with PC, specialty application, 12:6
bottle recycling, 2:15, 9:5
"Making Polymer Concrete With Recycled PET," 2:33
recycling and, 2:15, 4:14, 7:9, 9:5
specialty applications, 3:10, 9:5
Polymer concrete, 2:33
Polymerland, business news, 10:14
Polyolefins
light stability and, 6:21
processing of, 6:31
Polyphthalamide resin, 4:13
Polypropylene
automotive and, 10:3
biaxially oriented film, application, 11:4
blends with nylon 6, 7:37
composites, 5:13
foam, 3:82
high-melt-strength, 3:82
markets, 3:15
recycling of, 9:39
specialty applications, 2:25, 3:10, 4:7, 10:3, 10:3, 11:4
stabilization of, during processing, 9:39
world demand, 3:15
Polystyrene
foam (expanded), specialty application, 10:3
injection molding part toughness, 8:17
recycling of, 4:14
specialty application, 10:3, 11:5
sterilization and, 1:27
Polysulfone, specialty application, 6:20
Polyurea, in automotive, 1:23, 10:8
Polyurethane
automotive and, 10:8
CFCs and, 9:9
elastomer, specialty application, 4:7
specialty applications, 4:7, 11:6, 12:7
Polyvinyl chloride
bottles, recycled, 8:5
building codes and, 6:3
cost effectiveness of, in construction, 12:5
electrical uses of, 3:7
prolonging life of, 2:15
recycling of, 8:5
specialty applications, 1:4, 2:25, 4:5, 5:6, 5:8, 7:7, 8:5
V.I.P. Awards, 6:14
Postal Service, U.S., 11:6
Post-consumer plastics, association for recycling of, 12:5
Power monitoring, and plant management, 11:29
Previews
ANTEC 1991, 3:24
NPE '91, 5:28
SPI Composites Institute conference, 1:12
Processing
extrusion, 3:82, 4:9, 6:31
gas injection molding, 10:21
injection molding, 2:27
innovation and, 6:8
polyolefins, 6:31
thermoforming, 4:9
Processing aids, additives, 4:18, 9:12
PSO: *see* Polysulfone
Push-pull injection molding, 2:27
PVC: *see* Polyvinyl chloride

Q

Quality, registration of systems regarding, 3:15
Quebec, Government of, 7:31

R

Recruitment, 8:21
Recycling
automotive and, 10:3, 10:27, 11:7, 11:8
Calgary, Alberta, and, 11:4
California plant opens, 4:14
Canadian directory of, 8:64
Coca-Cola bottles, 2:15
coding system for plastic bottles, 9:6
commingled plastics, 4:7, 5:9
Council for Solid Waste Solutions (SPI) and, 1:3, 6:3, 8:6, 9:6, 11:7, 12:5
foam packaging, association for recycling of, 9:9
fuel production from recycled plastics, 5:9
grocery sacks, 6:20
HDPE, 2:24
Huntsman Chemical and, 7:9
labeling standards, 4:8
LDPE, 2:15
Massachusetts and, 11:8
Minneapolis, program in, 1:3
mixed plastic waste, 5:9
NAPCOR and, 7:9
Northeast Recycling Council, 4:8
Oregon and, 9:6
PET, 2:15, 2:33, 7:9
plastic bottles
coding guide available, 6:3
HDPE, 2:24
Massachusetts program, 11:8
PET, 2:15, 7:9, 9:5
PVC, 8:5
polyethylene terephthalate, 2:15, 2:33, 9:5
polymer breakdown, 5:9
polypropylene, 2:24, 9:39, 10:3
polystyrene, 4:14
polyvinyl chloride, 8:5
post-consumer plastics, association for recycling of, 12:5
"reverse polymerization," 5:9
rural area, program in, 8:7
SMC, 5:13
Society of Automotive Engineers and, 11:7
SPE RETECs on: *see* Regional Technical Conferences
SPI coding system for plastic bottles, 9:6
Regional Technical Conferences, SPE
applying '90s technology to vinyl: products, processing, methodology, ecology, 8:52
coextrusion VI—the real world of coextrusion, 9:78
elements of color and appearance for the thermoplastics processor, 8:51
flame resistant alloys and blends, 2:44
fourth international technical conference on polyimides, 8:55
marketing of polymer modifiers and additives, 8:48
medical plastics in the '90s: a decade of promise and challenge, 8:49
multiple shot, insert, and coinjection molding, 9:79
ninth international technical conference on photopolymers, 8:53
Olympian progress in blow molding, 8:50
plastics in electronic packaging: trends technologies, 9:80
plastics recycling in New England: now and the future, 4:39
polyimides and high temperature polymers, 5:130
polyolefins challenges for the '90s, 1:38, 4:6 (wrapup)
recycling, biodegradables, and energy resource, 8:47
recycling '91, 3:101
Reinforcements
additives, 7:12, 9:12
SMC recycled as, 5:13
SPI Composites Institute conference, 1:12, 3:13
Resins: *see also* specific type
annual review, 2:6
automotive and, 10:8
electrical/electronic and, 8:10
Resin transfer molding
automotive and, 8:9
specialty applications, 5:6, 7:6, 8:9
RETECs: *see* Regional Technical Conferences
Rheology, and liquid crystal polymers, 3:87
RTM: *see* Resin transfer molding

S

SAE: *see* Society of Automotive Engineers
Safety study, OSHA, 10:27
SAN, sterilization and, 1:27
Sandwich molding, 2:27
Sheet molding compound
automotive and, 10:8
recycling and, 5:13
testing of, 4:29
Silicones, specialty applications, 1:4, 6:20
Single-screw extruders, 6:31
Slip agents, additives, 9:12
SMC: *see* Sheet molding compound
Smoke suppressants, additives, 7:12, 9:12
Society of Automotive Engineers (SAE)
recycling codes, 11:7
SAE show, and plastics, 4:28
Society of Plastics Engineers
annual report, 5:69
ANTEC 1991
preview, 3:24
wrapups, 6:6, 7:18
Automotive Division Awards, 12:14
consultants directory, 5:138
Council meets in Montreal during ANTEC 1991, 6:50
Council meets in San Diego, 4:49
Council meets in San Francisco, 12:66
database access for members, 10:48
directory, international Society and its Sections and Divisions, 9:42
directory, membership, 5:138, 7:66, 8:64, 9:86
educational program, 8:64, 12:66
Executive Committee, appointed members, 6:30
Fellows, new, 7:66
film, new, 8:64, 12:66
50th anniversary of, 11:60
International Awards, 4:32
membership directory, 5:138, 7:66, 8:64, 9:86
Mexico and, 10:48
Not Your Average Field Trip (film), 8:64, 12:66
Officers, 1991–1992, 4:49, 5:20
Plaspec access for members, 10:48
publications sales, 10:48
RETECs: *see* Regional Technical Conferences
scholarship fund, 11:60
survey available, 11:60
Thermoforming Division Awards, 11:21
35,000th member, 5:138, 6:50
Society of the Plastics Industry, Inc.
Automotive Plastics Committee, 11:7
bottle coding guide available, 6:3
building codes and, 6:3
clean air regulations and, 8:6, 9:6, 12:5
Coalition for Container Safety and, 2:24
coding system for recycling plastic bottles, 6:3, 9:6
colorants rule of FDA and, 11:7
Composites Institute conference, 1:12, 3:13, 5:5
Consumer Product Safety Commission and, 8:6
Council for Solid Waste Solutions
Association of Post-Consumer Plastics Recyclers and, 12:5
contest on recycling of auto bumpers, 10:27
labeling standards and, 4:8
Minneapolis recycling program, 1:3
Oregon adopts recycling goals of, 9:6
publications of, 3:7
recycling climbs, 11:7
recycling goals announced, 6:3
recycling workshop, 8:6
waste management, information on, 3:7
educational materials available from, 12:66
environmental claims and, 9:6
Facts & Figures of the U.S. Plastics Industry, 12:66
FDA colorants rule and, 11:7
Healthcare Division, 5:5
issues for 1991, 4:8
Machinery Components Manufacturers Division, 5:5
machinery shipments, U.S., in 1990, 5:5
National Plastics Exposition (NPE '91), 5:28, 8:24
Operation Clean Sweep, 7:5
pellet handling and, 7:5
Phenolic Division, 2:24, 5:5
repetitive motion injuries and, 10:27
restrictions on plastics products, 7:5
safety awards, 7:5
Structural Plastics '91, 6:24
Styrene Information and Research Center, 1:7, 5:5
transport regulations and, 10:27
U.S. Plastics Industry *Facts & Figures,* 12:66
Vinyl Institute, 3:7, 6:14, 12:5
vinyl siding market and, 11:7
Solid waste management, in Minneapolis, Minn., and Olympia, Wash., 8:7
SPE: *see* Society of Plastics Engineers
SPI: *see* Society of the Plastics Industry
Stabilizers, additives, 4:18, 7:12, 9:12, 9:39
Standards, uniformity of, U.S. and other countries, 10:27
Storm water regulations, and plastics plants, 1:8, 12:5
Structural foam
reinforced PC, mechanical properties of, 6:25
tolerances in, 5:23
Structural Plastics '91, wrapup, 6:24
Styrene
human health and, 1:7, 5:5
Huntsman cuts production of, 8:7
Styrene Information and Research Center, 1:7, 5:5
Superconductors, polymers and, 4:13
Synergists, additives, 7:12

T

Testing
dielectric analysis of SMC, 4:29
rheometry, 4:29
SMC formulations, changes in, 4:29
Thermal history, effect of, 3:87
Thermoforming, polyester, 4:9
Thermoforming Division, SPE, awards, 11:21
Thermoplastic elastomers, specialty application, 6:4
Thermoplastic olefins, and automotive, 10:17
Thermoplastic polyurethane elastomers, specialty applications, 5:8, 9:8
Thermoplastics: *see also* specific type
automotive and, 10:8
Thermoplastic urethanes, sterilization and, 1:27
Thermoset composites, specialty application, 3:9
Thermosets: *see* specific type
Tolerances, tight, 5:23
Tooling
mold design, 11:33
tight tolerances, 5:23
Toxic substances, and EPA, 3:7
TPE: *see* Thermoplastic elastomers
TPO: *see* Thermoplastic olefins
Twin channel vent screws, 4:17

U

Ultrahigh molecular weight polymer, specialty application, 1:6
Ultraviolet light stabilizers, additives, 7:12, 9:12
Union Carbide Corp., 5:10
United States (*see also* listings beginning with "U.S.")
National Energy Strategy, 4:16
trade talks with Canada and Mexico, 4:8, 10:27
Urethane, cellular, specialty applications, 1:6, 2:5, 9:8
Urethane, specialty application, 11:6
U.S. Conference of Mayors, 8:7
U.S. Congress, 1:3
U.S. Environmental Protection Agency: *see* Environmental Protection Agency

U.S. Food and Drug Administration: *see* Food and Drug Administration
U.S. Postal Service, 11:6
Utility costs, reducing, 11:29

V

Vinyl ester resin, specialty application, 6:5
Vinyl Institute: *see* under Society of the Plastics Industry
Vinyl packaging, awards competition, 6:14
Vinyl siding, 11:7

W

Wrapups
ANTEC 1991, 6:6, 7:18
NPE '91, 8:24
Polyolefins VII, 4:6
SAE '91, 4:28
SPI Composites Institute conference, 3:13
Structural Plastics '91, 6:24 □

If you would like to order back issues of PLASTICS ENGINEERING, call SPE at (203) 775-0471 and ask for Maribeth Smith.

AUTHOR INDEX

Allen, P., 4:29
Austin, C., 12:23

Bradley, M.B., 3:82

Cheng, C.Y., 6:31
Christensen, R.E., 6:31
Cowan, R.A., 8:21

Dieckmann, D., 9:39
Drexler, L.H., 5:69

Eddy, J., 10:14
Edward, J.M., 3:5
Eiden, G., 3:87
Evans, T.R., 10:17

Ferris, R.M., 1:2, 2:3, 4:3, 5:3, 6:2, 7:3, 8:3, 9:3, 10:2, 11:3, 12:3
Fowler, D.W., 2:33

Graham, W.D., 5:13
Gray, R.L., 6:21

Hlavaty, D., 10:21
Hornberger, L., 6:25

Jutte, R.B., 5:13

Kadkol, P., 6:25
Kates, D.F., 1:7, 3:15, 4:6, 10:14, 11:8
Kobayashi, H., 3:87

Mack, M., 12:39
Malloy, R., 6:25
Mekkaoui, A.M., 3:87
Milliren, C.M., 1:23
Modic, M.J., 7:37
Mosier, D.D., 10:17

Noller, R., 5:23

Paul, D.R., 2:33
Phillips, E.M., 3:82
Pottick, L.A., 7:37

Racanelli, P., 8:17
Rebeiz, K.S., 2:33
Rickey, D., 11:29
Rosich, M., 4:29

Shah, S., 10:21
Shortt, M.W., 1:12, 3:13, 8:24, 8:31, 11:21, 12:14
Song, J.H., 8:17
Strum, W.L., 4:9
Sturdevant, M.F., 1:27

Theberge, J., 2:27

Urquhart, M., 11:33

Wigotsky, V., 1:20, 2:6, 4:18, 4:28, 6:8, 6:24, 7:12, 8:10, 10:8, 11:24, 12:16 □

ARM YOURSELF ON THE JOB WITH VITAL PLASTICS DATA

New!

POCKET GUIDES TO PLASTICS

By Tony Whelan and John Goff, Polymer Consultants

Be ready with the latest, most accurate thermoplastics data available, whenever and wherever you need it—at your desk, in the plant, or in the conference room.

These sources are packed with descriptions, design specifications, price comparisons, and other essential facts on plastics materials and molding techniques.

When these pocket-sized guides are on the job with you, you're just seconds away from important data on • commodity and bulk thermoplastics materials • engineering thermoplastics • thermoplastics elastomers • thermosetting plastics • alloys • temperature settings • viscosity/shear rates • prices/weights • trade names • and much more.

CHECK TITLE BELOW

For each volume, SPE Member price: $30.00; Non-members: $37.00

☐ **INJECTION MOLDING OF THERMOPLASTICS MATERIALS Volume 1** Second Edition
A bounty of information on the processing and properties of commodity thermoplastics, ranging from polystyrenes and styrenes to cellulosics. *160 pages, paper, 4 1/2 x 7 3/4, 0-442-30306-8*

☐ **INJECTION MOLDING OF THERMOPLASTICS Volume 2**
Details the latest commodity thermoplastics available, including polyethylenes, polypropylenes, and polyvinyls.
160 pp., paper, 4 1/2 x 7 3/4, 0-442-30550-8

☐ **INJECTION MOLDING OF ENGINEERING THERMOPLASTICS**
Concise data on today's high-strength polymers used increasingly for new products and as replacements for traditional materials.
200 pages paper, 4 1/2 x 7 3/4, 0-442-30321-1

☐ **MOLDING OF THERMOSETTING PLASTICS**
Practical information on the molding and use of important but often neglected materials. *110 pages, paper, 4 1/2 x 7 3/4, 0-442-30318-1*

MAIL TO: Society of Plastics Engineers, Inc.,
14 Fairfield Drive, Brookfield, CT 06804-0403

Add $5 for shipment within U.S., $7 for shipment to Canada. CT residents add 8% sales tax. All sales final; no refunds. (Offer subject to credit department approval. Prices subject to change.)

Name _____ _____
Address _____
City _____ State _____ Zip _____
☐ Check or money order enclosed.
Please charge my ☐ MasterCard ☐ Visa ☐ American Express
Card # _____ Exp. _____
Signature _____

P1195